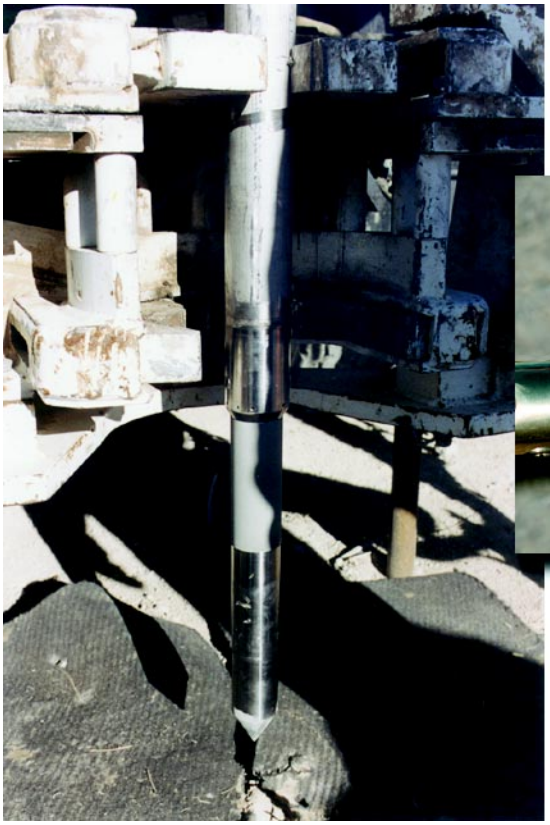

PN01-483-1-9

PN01-0483-1-14

Direct Push Waste Zone Tensiometer– Type B Probe

Problem
INEEL's Radioactive Waste Management Complex remediation project needed to measure groundwater movement in buried waste without exposing workers to transuranic or hazardous contaminants.

Baseline Technology
Corehole drilling with extensive contamination control to retrieve samples for laboratory analysis.

Innovative Technology
The Direct Push Waste Zone Tensiometer is a sensor that is driven into buried waste to measure water movement in unsaturated soils.

Comparison
This Type B probe is inserted into the waste zone and left in place to monitor groundwater movement and eliminate the need for repeated corehole drilling to retrieve samples.

Benefits
Use of the tensiometer probe and other Type B probes, collectively increase worker safety by avoiding risks associated with handling waste materials, and could save the project an estimated $8.5 million by eliminating the need for coring sample retrieval.

ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-107
Radioactive Waste Management Complex Remediation